

ABSTRACT OF THE DISCLOSURE

Combustion method and apparatus for NO_x reduction and CO reduction which are capable of easily achieving super NO_x reduction with the value of exhaust NO_x under 10 ppm. The combustion method for NO_x reduction by controlling the temperature of combustion gas derived from a burner includes in combination the steps of suppressing combustion gas temperature by heat absorbers; suppressing the combustion gas temperature by recirculating burning-completed gas to a combustion-gas burning reaction zone; and suppressing the combustion gas temperature by adding water or steam to combustion-use air of the burner, whereby the temperature of the combustion gas derived from the burner is suppressed.